

AUTHOR INDEX

Volume 10

- Adnadjević, B., 699
 Adnot, A., 559
 Aleshin, E.G., 111
 Anderson, A.A., 32, 61
 André, J.-M., 221
 Audet, R., 559
- Balkus, Jr., K.J., 722
 Barr, T.L., 760
 Barthomeuf, D., 131, 157
 Becker, K., 151
 Bellussi, G., 642
 Beschmann, K., 798
 Beyer, H.K., 603
 Bhat, R.N., 85
 Bibby, D.M., 74, 121, 146
 Bondarenko, T.N., 603
 Borbély, G., 603
 Borovkov, V.Y., 668
 Bosacek, V., 64
 Bosch, P., 588
 Bowden, M.E., 105
 Briend, M., 157
 Brunner, G.O., 612
 Bulbulian, S., 588
 Burelle, S., 559
 Buš, M., 577, 583
- Cacciola, G., 565
 Cahoreau, M., 703
 Caisso, J., 703
 Carati, A., 642
 Cardile, C.M., 90, 680
 Castle, J.E., 51
 Catherine, E., 226
 Challoner, R., 539
 Chambellan, A., 226
 Chapman, D.M., 730
 Chauvin, B., 174
 Chen, H., 784
 Chen, L., 626
 Chievreau, T., 226
 Chmelka, B.F., 790
 Chon, H., 101
 Choudhary, V.R., 16
 Cichocki, A., 577, 583
 Cid, R., 95
 Corma, A., 690
 Coudurier, G., 183
 Crowder, C.E., 163
- Deeba, M., 794
 De Hulsters, P., 137
 Delmotte, L., 546, 778
 Delprato, F., 546
 Deng, Z., 272
 Dergachev, A.A., 603
 Derouane, E.G., 221, 243, 310
 Des Courieres, T., 174
 Despotović, L.A., 634
 Dessau, R.M., 205, 522
 Díaz-Aguila, C., 685
 Dima, E., 8
 Dixon, A.G., 44
- Dolejšek, Z., 189
 Dumont, N., 243
 Dunn, J., 553
 Dutartre, R., 174
 Dzwigaj, S., 157
- Edgell, M.J., 51
 Engelhardt, G., 650
- Fajula, F., 174
 Feeley, J.S., 738
 Feng, Y., 278
 Fierro, J.L.G., 95
 Figueras, F., 174
 Filimonova, S.V., 593
 Filipović-Rojka, Z., 699
 Finger, G., 615
 Ford, M.E., 794
 Fripiat, J.G., 221
 Froment, G.F., 139
 Fuchs, S., 798
 Fundora-Llitas, J., 685
 Fyfe, C.A., 278
- Gabelica, Z., 243
 Gervasini, A., 642
 Ghosh, A.K., 766
 Giannetto, G., 301, 703
 Gielen, B., 139
 Gies, H., 278
 Giordano, N., 565
 Gnade, B.E., 722
 Gorjachenko, S.S., 111
 Grondy, H., 278
 Guanghuan, L., 753
 Guisnet, M., 301, 703
 Guth, F., 778
 Guth, J.L., 134, 546, 674, 778
- Haixia, W., 259
 Handreck, G.P., 746
 Harris, R.K., 539
 Hay, D.G., 571
 Hearmon, R.A., 608
 Hémidy, J.F., 226
 Hernández-Vélez, M., 685
 Hidaka, S., 21
 Higgins, J.B., 293, 313S, 522
 Howell, D.A., 525
 Hrúzik, D., 213
 Huang, M., 272, 772
 Huve, L., 546
 Hwang, B., 101
- Ito, T., 310
- Jaeger, H., 571
 Jahn, E., 151
 Jänicke, W., 695
 Janiga, J., 38
 Janin, A., 226
 Jansen, J.C., 235
 Jean, G., 559
 Jianquan, L., 259, 753
- Jinghong, M., 200
 Johnson, G.K., 525
 Joshi, P.N., 598
- Kaliaguine, S., 559
 Karge, H.G., 662
 Kärger, J., 288
 Kato, N., 21
 Katović, A., 634
 Kaučič, V., 169, 802
 Kawasaki, S., 21
 Kazansky, V.B., 266, 304, 603, 668
 Kerr, G.T., 623
 Kessler, H., 674
 Khabtou, S., 226
 Khodakov, A.Y., 603
 Khouzami, R., 183
 Knight, C.T.G., 140
 Kornatowski, J., 615
 Kotasthane, A.N., 598
 Krupčík, J., 213
 Kubelkova, L., 64
 Kucherov, A.V., 111
 Kühl, G.H., 2
 Kujawa, J., 657
 Kumar, R., 85, 117
 Kustov, L.M., 266, 304, 603
 Kydd, R.A., 766
- Łasocha, W., 583
 Lavalley, J.C., 226
 Lechert, H., 251
 Leclercq, P.A., 213
 Lefebvre, F., 183
 Lemay, G., 559
 Lercher, J.A., 283
 Li, Y., 772
 Liu, Z.Y., 565
 Loeffler, E., 266, 304
 Lohse, U., 266, 304
 Lopez, A., 134, 778
 Lopez Agudo, A., 95
 López-Colado, L., 685
- Maddinelli, G., 642
 Maeda, Y., 21
 Maistriau, L., 243, 310
 Malkin, V.G., 207
 Marković, V., 699
 Marzin, M., 226
 Massiani, P., 174
 Mastikhin, V.M., 593
 Medin, A.S., 668
 Meinhold, R.H., 74, 105, 121, 146
 Melo, F.V., 690
 Mentzen, B.F., 183
 Mersmann, A., 210
 Michalik, M., 577, 583
 Milestone, N.B., 90, 105
 Millini, R., 642
 Minachev, K., 603
 Mudrakovsky, I.L., 593
 Mugford, S.C., 51
 Müller, D., 151
 Murakami, Y., 307, 532

Index

- Nagy, J.B., 243
 Neiben, W., 657
 Newsam, J.M., 553
 Nimz, M., 297
 Nita, K., 21
 Niwa, M., 307, 532
 Norby, P., 193
 Nováková, J., 189
- Oehlmann, G., 266, 304
 O'Hare, P.A.G., 525
 Olguin, M.T., 588
- Packer, K.J., 539
 Pak, C., 790
 Pan, D., 210
 Parasiewicz-Kaczmarzka, J., 577
 Patarin, J., 674
 Paynter, R.W., 51
 Pelmentschikov, A.G., 668
 Peltre, M.J., 157
 Perot, G., 703
 Peuker, Ch., 266, 304
 Pfeifer, H., 288
 Philippaerts, J., 137
 Pope, C.G., 28
- Rajić, N., 169, 802
 Ratnasamy, P., 85
 Rawlence, D.J., 690
 Rees, L.V.C., 8, 626
 Reguera-Ruiz, E., 685
 Restuccia, G., 565
 Rickert, L., 798
 Roe, A.L., 730
- Roque-Malherbe, R., 685
 Rudolf, P.R., 163
 Ruifeng, L., 200
 Rumplmayr, G., 283
 Ryoo, R., 790
- Sacco, Jr., A., 44
 Sachtleir, W.M.H., 738, 784
 Sawa, M., 307, 532
 Sawicki, J.A., 559
 Sawlowicz, Z., 583
 Schlenker, J.L., 293, 522
 Schmitt, K.D., 2
 Scott, G., 44
 Seive, A., 778
 Shan, S., 772
 Shepelev, Y.F., 32, 61
 Shikolheslami, A., 157
 Shiralkar, V.P., 598
 Singh, A.P., 16
 Slinkin, A.A., 111
 Slovetskaja, K.I., 111
 Šmit, I., 634
 Smith, T.D., 746
 Smolin, Y.I., 32, 61
 Soulard, M., 134, 778
 Spindler, H., 288
 Srinivasan, K.R., 16
 Stallmach, F., 288
 Stewart, A., 608
 Stojaković, D., 169, 802
 Subotić, B., 634
- Takashima, Y., 21
 Tao, D., 200
- Tapp, N.J., 90, 105, 680
 Tasker, I.R., 525
 Taylor, M.J., 539
 Thangaraj, A., 85, 117
 Thompson, R.W., 44
 Torrealba, M., 703
- Valyocsik, E.W., 293
 van Bekkum, H., 235
 van Koningsveld, H., 235, 650
 Vansant, E., 137
 Vedrine, J.C., 183
 Verbiest, J., 137
 von Ballmoos, R., 313S
 Vukićević, J., 699
- Wang, Q., 272, 772
 Wang, Q.L., 301, 703
 Welch, A.A., 722
 Wenyang, X., 200, 259, 753
 Weyda, H., 251
 Wilshier, K.G., 571
 Wise, W.S., 525
- Xie, D., 553
- Yan, Y., 137
 Yelon, W.B., 553
 Yuan, C., 772
- Zhang, Z., 784
 Zhidomirov, G.M., 207, 668
 Zholobenko, V.L., 266, 304
 Ziółek, M., 657, 662

KEYWORD INDEX Volume 10

- ¹¹⁹Sn Mössbauer spectroscopy, 680
¹²⁹Xe n.m.r., 790
¹²⁹Xe n.m.r. pulsed-field gradient technique, 288
¹³C, 121
¹³C n.m.r., 608
 14-ring molecular sieve, 522
¹⁵N and ²⁷Al n.m.r., 593
¹⁹F MAS n.m.r., 778
 1-heptene, 213
- ²⁷Al, 74, 146
²⁷Al and ²⁹Si MAS n.m.r., 532
²⁷Al MAS n.m.r., 2
²⁹Si, 74, 146
²⁹Si 2D n.m.r., 278
²⁹Si and ²⁷Al n.m.r., 174
²⁹Si MAS n.m.r., 2, 650
- ³¹P MAS n.m.r., 2
 3D structure, 278
- ⁹⁹Mo, 588
^{99m}Tc, 588
- Acetone adsorption, 64
 Acid amount, 532
 Acid catalysis, 131, 205
- Acidity, 157, 304
 Acid leaching, 226
 Acid site distribution, 690
 Acid sites, 28
 Activation energy, 598
 Active sites, 304
 Adsorption, 28, 213, 593
 Adsorption capacity, 38
 AgL α monochromatic, 51
 Alkali metal cation effect, 598
 Alkane, 74
 Alkylammonium fluoride templates, 778
 AlPO₄, 163
 AlPO₄-11, 105, 151
 AlPO₄-15, 802
 AlPO₄-5 and SAPO-5 molecular sieves, 251
 AlPO₄-8, 522
 Aluminatation, 746
 Aluminophosphate molecular sieves, 680
 Aluminophosphates, 90
 Aluminophosphate synthesis, 251
 Aluminosilicate precursors, 117
 Aluminum distribution, 703
 Amines, 28
 Ammonia, 8
 Ammonium hexafluorosilicate, 301, 703
 Amorphous silica-aluminas, 131
 Aromatic hydrocarbons, 16
- Base catalysis, 205
 Benzene, 626
 Benzene adsorption, 226
 Bonding chemistry, 760
 Boralite, 577
 Boralites, 583
 Boron, 577
 Boron release, 583
 Brønsted acidity, 760
- C₂-C₄ olefin, 200
 Calorimetry, 525
 Catalyst, 200
 Catalytic cracking, 297
 Cation location, 272
 Cation position, 772
 Characterization, 243, 642
 Chemical shift, 207
 Chromium ions, 111
 CoAlPO-15, 802
 Cobalt (II) coordination, 802
 Cobalt (II) coordination geometry, 169
 CO hydrogenation, 200
 Coke, 121
 Coke deposition, 189
 Coke oxidation, 189
 Coking, 146
 Connectivities, 278

- CoSAPO molecular sieves, 169
 Covalency/ionicity, 760
 Cr-mordenite, 272
 Crown-ether, 546
 Crystal growth, 251, 634
 Crystallization, 577, 598, 634
 Crystal structure, 32, 61, 193
 Cu-Y, 101
 Cu-ZSM-5, 101
 Cyclization, 205
- Deactivation, 794
 Dealuminated mordenite, 532
 Dealuminated Y, 8
 Dealuminated Y zeolite, 226
 Dealumination, 131, 266, 301, 304, 690, 703, 746
 Decaline, 297
 Defect sites, 539
 Degree of crystallinity, 699
 Dehydration, 32, 61
 Dealumination, 266
 Diffuse reflectance of Pd/NaY, 784
 Diffusion, 790, 798
 Diketones, 205
- Electron microscopy, 174
 Enhanced reduction, 738
 Enthalpy increment, 525
 Enthalpy of formation, 525
 E.p.r., 272
 EPR, 101
 Ethylene amination, 794
 Eucryptite, 193
 EXAFS of Pd/NaY, 784
 Extraframework phase, 226
 Extraframework species, 603
- FAPO, 90
 Faujasite, 157, 690
 Faujasite-type zeolite, 546
 Fe-Beta, 85
 Flexible manufacturing systems, 695
 Fluoride, 766
 Fluoride ions, 674
 Framework Al content, 532
 Framework silicates, 612
 Framework topology, 293, 522
 Free volume, 226
 FTi.r., 680
 Furans, 101
- Gallosilicate, 603
 Gallosilicate zeolite, 553
 Gel chemistry, 169
 Germanium, 134
- Heat capacity, 525
 H-erionite, 794
 H-mordenite, 297
 Hot-wire method, 565
 Hydration, 74
 Hydration effect, 183
 Hydrosulfurization, 95, 657
 Hydrosulfurization, effect of acidity, 662
 Hydrosulfurization of alcohols over Me^{2+} -NaX zeolites, 657
 Hydrosulfurization of (C2, C3) alcohols, 657
- Hydrosulfurization of ethanol, 662
 Hydrosulfurization over X-type zeolites, 662
 Hysteresis, 210
 H-Y zeolite, 794
 HY zeolite, 189
 H-ZSM-5, 235
 HZSM-5, 28, 74, 121, 146, 266, 583, 668
 HZSM-5 zeolite, 189
 HZSM-5 zeolites, 304
- INDO, 207
 Infrared, 157, 766
 Infrared spectroscopy, 105
 Intergrowth, 571
 Ion exchange, 588, 746
 Ion-exchange Fe^{3+} in Na-ZSM-5, 559
 Ion location in zeolites, 784
 Iron, 685
 Iron distribution, 674
 Iron-oxide cluster, 21
 Iron-silicates, 85
 I.r. spectroscopy, 64, 668
 Isomerization, 259
 Isomorphous replacement, 577
 Isomorphous substitution by Fe, 85
- Kinetics, 251
 KS01 zeolite, 38
 KZSM-48, 753
- Large crystals, 615
 Large pore, 243
 Lattice gas, 210
 Lewis acidic sites, 593, 668
 Liquid phase, 213
 Lithium ion, 61
 Location of phosphorus, 2
 LTL zeolite, 598
- Magic-angle spinning, 539
 Magnesium ion, 32
 Magnetite, 685
 MAS-n.m.r., 183
 MAS n.m.r. spectroscopy, 151
 Metavariscite, 90
 Methylene blue, 746
 MFI, 577
 MFI structure, 583
 MFI-type structure, 674, 778
 MFI-type zeolite, 134
 Migration, 272
 Molecular sieve, 163, 615
 Molecular sieves, 730, 778
 Molecular sieve synthesis, 169, 802
 Molsieves plants, 695
 Monoclinic framework, 235
 Mordenite, 259, 532
 Morphology, 615
 Mössbauer spectroscopy, 21, 90, 685
- NaCaA, 288
 Natural zeolite, 685
 NaX, 288, 699
 NaX and NaY zeolites, 213
n-butylamine, 200
 Neutron diffraction, 553
 NH_3 -TPD, 532
 NH_4 ZSM-5, 583
- n*-hexane cracking, 304
 Nickel reducibility, 738
 Nickel/zeolite, 738
 Ni/NaY, 738
 N.m.r., 74, 105, 117, 121, 146, 207, 243, 539
 N.m.r. spectroscopy, 64
 Nonaqueous system, 259, 753
 Nonframework aluminum, 266
 Nu-3, 608
 Nucleation, 634
- Octahedral site, 685
 Olefin formation, 297
 Organic template, 169, 802
 Oxygen, 74
- Palladium/zeolite catalysts, 784
 Pd ions in hexagonal prisms, 784
 Phase analysis, 38
 Phase transition, 134
 Physicochemical techniques, 95
 Polarization of oxygen, 760
 Polyfunctional catalysts, 111
 Porosity, 174
 Powder diffraction, 193
 Production planning, 695
 Propane aromatization, 603
p-Xylene, 626
- Quantum chemistry, 207
- Radicals, 101
 Reduction Fe^{3+} to Fe^{2+} , 559
 Rh, 722
 Rietveld refinement, 163, 553
- SALEN, 722
 SAPO-11, 151, 183
 SAPO-37, 157, 243
 SAPO-42, 2
 SAPO-5, 157, 615
 Scheduling, 695
 SEM, 90, 680
 Sieve, 243
 Sigma-1, 608
 Sigma-2, 608
 Silica-alumina ratio, 626
 Silicalite, 134, 746
 Silicalite-2, 200
 Silicalite-1, 16
 Silica-rich faujasite, 546
 Silicoaluminophosphate, 2, 243, 615
 Simulation, 695
 Single crystal, 235
 Single phase, 243
 SnAPO-5, 680
 Solid-state, 608
 Solid-state ion exchange, 772
 Solid-state reaction, 111
 Sorbate, 74
 Sorption, 74, 598
 Sorption kinetics, 798
 Spectroscopy, 169
 Stability, 301
 Steam dealumination, 174
 Stilbite, 525
 Structure, 730
 Structure analysis, 235

Index

- Surface acidity, 766
 Surface barriers, 288
 Symmetry change, 650
 Synthesis, 151, 243, 577, 615, 642, 730, 753
 Synthesis in F- medium, 778

 Temperature-programmed desorption, 8, 16, 626
 Temperature-programmed desorption of ammonia, 307
 Temperature-programmed desorption of ammonia from Me^{II}-NaX, 662
 Temperature-programmed desorption of pyridine from Me^{II}-NaX, 662
 Template, 539
 Templates, 608
 Templating effect, 546
 Tetrahedral aluminum, 131
 Tetrahedral site, 685
 Tetrapropylammonium, 577
 T.g., 243
 Theoretical networks, 612
 Thermal analysis, 674
 Thermal conductivity, 565
 Thermal transformation, 193
 Thermodynamic properties, 525
 Thermogravimetry, 105
 THETA-1, 539, 626
 Thiopene conversion, 95
 Thiophenes, 101
 Titanium silicates, 730

 Topology, 612
 T.p.r., 738
 T.p.r. of Fe²⁺ HZSM-5, 559, 738
 Transformation, 634
 Transmission electron microscopy, 174
 Triethanolamine, 44
 TS-1, 642
 Two-liquid phase, 243

 Vanadium, 772
 Variscite, 90
 VPI-5, 163

 Xenon, 790
 XPS, 51, 722, 760
 X-ray diffraction, 38, 105, 134, 183, 235, 650
 X-ray emission mapping of FeK α , 674
 X-ray powder diffraction, 699
 X-ray structure, 163
 XRD, 680
 X-type zeolites, 662
 Xylene, 259
 X zeolite, 32, 61

 Y and ZSM-5 zeolites, 593
 Y-type faujasite, 38
 Y-type zeolite, 21
 Y-type zeolites, 51
 Y zeolite, 546, 703, 772, 790

 Zeolite, 2, 74, 121, 146, 193, 243, 293, 539, 565
 Zeolite A, 588
 Zeolite beta, 85
 Zeolite crystallization, 44
 Zeolite DD3R, 278
 Zeolite encapsulation, 722
 Zeolite H-Y, 8
 Zeolite HY, 64
 Zeolite HZSM-5, 64
 Zeolite NaA, 44
 Zeolite Na-Y, 8
 Zeolite omega, 174
 Zeolite P, 634
 Zeolites, 207, 760
 Zeolite synthesis, 85, 553
 Zeolite VPI-5, 612
 Zeolites X and Y, 722
 Zeolite Y, 117, 588
 Zeolite adsorption, 210
 ZK-21, 2
 ZK-22, 2
 ZSM-11, 626
 ZSM-5, 134, 205, 288, 571, 577, 626, 642, 650, 746, 766, 798
 ZSM-57, 293
 ZSM-5-type zeolite, 16

 The June 1990 issue of *Zeolites* was a special issue, entitled "Collection of Simulated XRD Powder Patterns for Zeolites" compiled by R. von Ballmoos and J.B. Higgins.

